

KOTZIN ET AL.
"Handover During Packet Session in Wireless
Communication Networks and Methods"
Atty. Docket No. CS23254RA

Appl. No. 10/647,410
Confirm. No. 2657
Examiner J. Stein
Art Unit 2685

1. (Currently Amended) A method in a mobile communications device, the method comprising:

participating in a packet session;

identifying a handover target in the mobile communications device;

sending handover information for the handover target to a packet server while in the packet session;

receiving radio resource information for the handover target from the packet server in response to sending the handover information to the packet server.

2. (Currently Amended) The method of Claim 1,

handing over to ~~[a new cell]~~ the handover target using the radio resource information received from the packet server.

3. (Currently Amended) The method of Claim 2,

~~[the radio resource information received from the packet server includes radio resource assignment information;]~~

handing over to the ~~[a new cell]~~ handover target without requiring the mobile communications device to request a radio resource assignment from the ~~[a new cell]~~ handover target.

4. (Original) The method of Claim 1, receiving radio resource information from the packet server in response to sending handover information to the packet server includes receiving at least one of frequency, slot, time-to-transfer and power information from the packet server.

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5. (Currently Amended) The method of Claim 1,
making neighbor measurements during the packet session;
sending the handover information to the packet server includes
~~[include]~~ sending information based on the neighbor measurements.

Claim 6 (Canceled).

7. (Original) The method of Claim 1,
participating in the packet session includes communicating voice
data in the packet session;
sending the handover information to the packet server while
communicating voice data in the packet session.

8. (Currently Amended) The method of Claim 1 ~~[7]~~,
identifying ~~[at least one]~~ a plurality of potential handover ~~[target]~~
targets to the packet server,
receiving radio resource information from the packet server for at
least one of the handover targets identified.

9. (Original) The method of Claim 1, reducing interruption of the
packet session during handover by using the radio resource information
received from the packet server to facilitate handover to a new cell.

10. (Currently Amended) A method in a packet server connected
to a communications network, the method comprising:
receiving information from a mobile wireless communications
device identifying a handover target;

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negotiating with a radio communications network for a radio resource transfer for [a] the handover target identified by the mobile wireless communications device,

sending, from the packet server, radio resource information for the handover target identified to the mobile wireless communications device.

11. (Currently Amended) The method of Claim 10,

~~[receiving, at the packet server, handover information from a mobile wireless communications device,]~~

sending the radio resource information to the mobile wireless communications device after negotiating in response to receiving the handover information.

12. (Original) The method of Claim 11, negotiating with the radio communications network for a radio resource transfer for the mobile wireless communications device based on the handover information received from the mobile wireless communications device.

13. (Currently Amended) The method of Claim 10,

receiving handover information from the mobile wireless communications device includes receiving ~~[at least one potential]~~ a plurality of handover ~~[target]~~ targets identified by the mobile wireless communications device,

sending radio resource information to the mobile wireless communications device for at least one of the handover targets identified by the mobile wireless communications device.

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14. (Original) The method of Claim 10, sending radio resource information from the packet data server includes sending at least one of frequency, slot, time-to-transfer and power information to the mobile wireless communications device.

15. (Currently Amended) A method in a mobile communications device in a packet session, the method comprising:

deciding to handover to a target cell;

sending handover information for the target cell to a packet server during a packet session;

receiving radio resource information from [a] the packet server for the target cell before handing over to the target cell

~~[handing over to a new cell during the packet session;~~

~~reducing interruption of data communication during the packet session while handing over to the new cell using the radio resource information received from the packet server].~~

16. (Original) The method of Claim 15, participating in voice communications in the packet session.

17. (Currently Amended) The method of Claim 15,

receiving radio resource information from the packet server includes receiving handover timing information,

reducing interruption of [the] data communications during the packet session during handover by making a timed transfer to the [new] target cell using the handover timing information from the packet server.

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18. (New) The method of Claim 1, making a handover decision in the mobile communications device.

19. (New) The method of Claim 10, negotiating with the radio communications network without making a handover decision for the mobile wireless communications device.

20. (New) A method in a wireless communications network entity, the method comprising:

receiving handover information from a mobile wireless communications device identifying a potential handover target;

communicating handover information to the potential handover target before the mobile wireless communications device handover to the potential handover target.

21. (New) The method of Claim 20, sending, from the wireless communications network entity, radio resource information for the potential handover target to the mobile wireless communications device before the wireless communication device hands over to the potential handover target.